

SCREEN-PACTM
User's Guide



OSBORNETM
COMPUTER CORPORATION

OSBORNE SCREEN-PACtm

USER'S GUIDE

Osborne Computer Corporation

Hayward, California

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Part No. 2F00154-01

CONTENTS

Introduction	1
User Registration	2
Extended Utility Diskette	2
Using an External Video Monitor	3
Osborne 12" Monitors	4
Preparing Applications Diskettes	5
1. SYSGEN	5
2. SETUP	7
Selecting Screen Size	9
Configuration Notes	10
Reformatting Files	11
WordStar	11
SuperCalc	12
Additional SCREEN-PAC Features	13

Introduction

SCREEN-PACtm gives you new flexibility to configure the Osborne 1's video screen. In addition to the 52 column format originally provided by the Osborne, you can now select an 80 or 104 column video display. This means increased efficiency and convenience with more data on screen and less horizontal scrolling. You can also change screen size as needed to meet your requirements.

The worksheets below show how the expanded screen gives you access to more data.

```

1:  A  B  C  D  E
2:  This is a Sample SuperCalc Worksheet
3:
4:  Jan  Feb  Mar  Apr
5: ASSETS
6: Acct.s Re 1000 1050 1102.5 1157.625
7: Cash 300 500 525 551.25
8: Unsold Go 250 262.5 65.625 289.4063
9: Total Ass 1550 1812.5 1693.125 1998.281
10:
11: LIABILITIES
12: Acct.s Pa 1000 916.6667 840.2778 770.2546
13: Storage C 50 50 50 50
14: Labor 100 105 110.25 115.7625
15: Materials 50 52.5 55.125 57.88125
16:
17: Total Lia 1200 1124.167 1055.653 993.8984
18:
19: NIBT 350 688.3333 637.4722 1004.383
20: Dep. Allo 100 100 100 100
> A1 TL Text="This is a Sample SuperCalc Wor
Width: 9 Memory: 22 Last Col/Row: 025 ? for HELP
1>

```

52 Column SuperCalc Screen

```

1:  B  C  D  E  F  G  H  I
2:  This is a Sample SuperCalc Worksheet
3:
4:  Jan  Feb  Mar  Apr  May  Jun  Jul  Aug
5: ASSETS
6: Acct.s Receivable 1000.00 1050.00 1102.50 1157.63 1215.51 1276.28 1340.10 1407.10
7: Cash 300.00 500.00 525.00 551.25 579.01 607.75 638.14 670.05
8: Unsold Goods 250.00 262.50 65.63 289.41 303.00 319.07 335.02 351.70
9: Total Assets 1550.00 1812.50 1693.13 1998.28 2098.28 2203.11 2313.26 2420.92
10:
11: LIABILITIES
12: Acct.s Payable 1000.00 916.67 840.28 770.25 706.07 647.23 593.29 543.05
13: Storage Costs 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00
14: Labor 100.00 105.00 110.25 115.76 121.55 127.63 134.01 140.71
15: Materials 50.00 52.50 55.13 57.88 60.70 63.81 67.00 70.36
16:
17: Total Liabilities 1200.00 1124.17 1055.65 993.90 938.39 888.67 844.31 804.92
18:
19: NIBT 350.00 688.33 637.47 1004.38 1159.00 1314.13 1468.95 1624.01
20: Dep. Allowance 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
< B1 TL Text="This is a Sample SuperCalc Worksheet
Width: 28 Memory: 21 Last Col/Row: 025 ? for HELP
1>

```

104 Column SuperCalc Screen

Your Osborne Dealer has installed a new video socket next to the BATTERY connector on the front of the computer. You'll use this socket to connect an external video monitor to your Osborne.

SCREEN-PAC also includes the Osborne Extended Utility Diskette[™] which lets you set up your software for 52, 80, or 104 column display.

User Registration

Before using SCREEN-PAC, please complete the User Registration Card and the CP/M Software License Agreement.

Users of Osborne 12" video monitors should also complete the Video Adaptor Request card and return it to Osborne Computer Corporation.

Extended Utility Diskette[™]

The Extended Utility Diskette includes CP/M files needed to change screen size. The diskette has these files:

AUTOST.COM
COPY.COM 3.2
MOVCPM.COM
SETUP.COM 2.6
SYSGEN.COM 2.1
XDIR.COM 3.5

We recommend you copy the Extended Utility Diskette as security against loss or damage to the original.

Store the original diskette in a safe place. Use the copy to select the screen sizes you need.

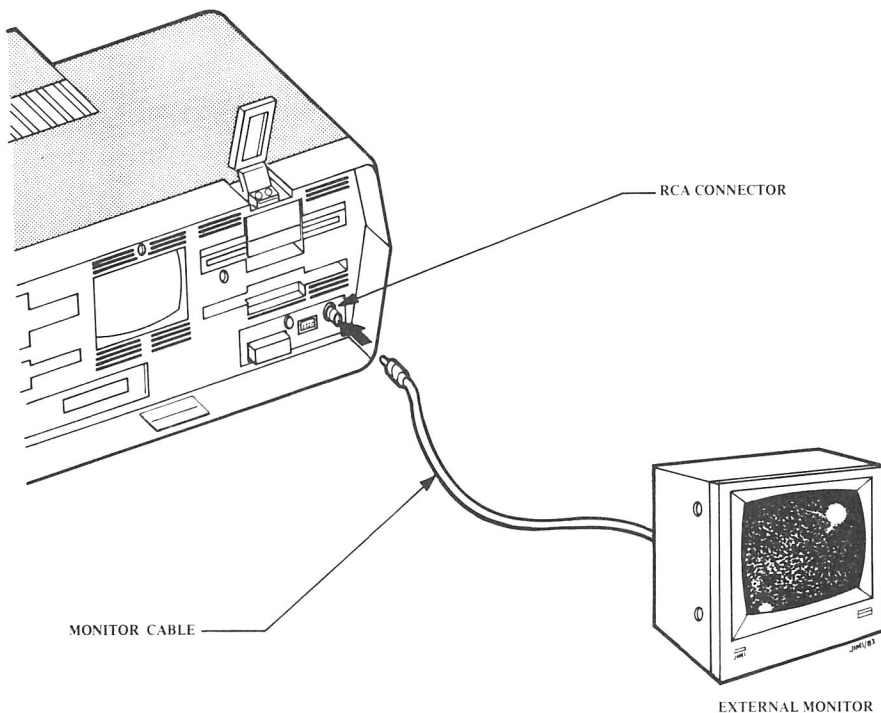
Using an External Video Monitor

This section concerns external video monitors other than the Osborne 12 inch. If you're using an Osborne 12 inch monitor, please go on to the next section of this Manual.

The new video socket on the front of your Osborne is called an "RCA connector." External monitors attach directly to this connector without an external adaptor.

To connect an external monitor:

1. Turn the computer OFF.
2. Be sure the "EXT VIDEO" plug originally supplied with your Osborne is in place to the left of the RESET button.
3. Plug your external monitor into the RCA connector as shown below.

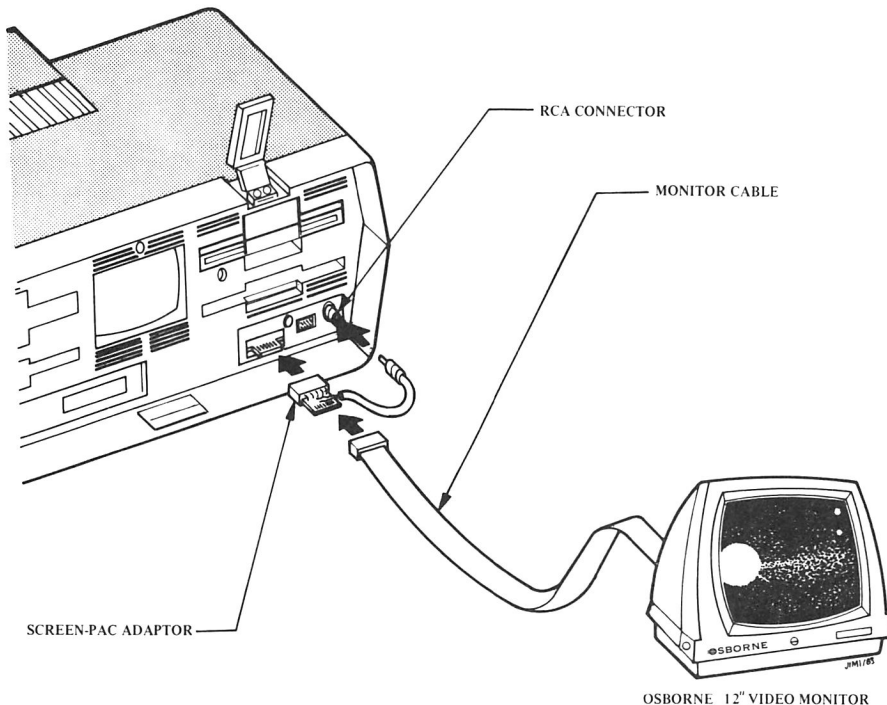


Osborne 12" Video Monitors

Osborne 12" video monitors use a special SCREEN-PAC adaptor and cable. Osborne Computer Corporation will provide the adaptor directly to owners of these monitors free of charge. Simply return the Video Adaptor Request card included with SCREEN-PAC.

The new video socket installed on the front of your Osborne is called an "RCA connector." Connect your Osborne monitor to it this way:

1. Turn your computer OFF and remove the "EXT VIDEO" plug to the left of the RESET button.
2. Plug the SCREEN-PAC adaptor into the "EXT VIDEO" socket.
3. Connect the Osborne 12" monitor to the SCREEN-PAC adaptor.
4. Plug the cable on the SCREEN-PAC adaptor into the round RCA connector.



Preparing Applications Diskettes

With SCREEN-PAC you can set screen size individually for each of your applications diskettes. You may decide, for example, to use an 80 column display for WordStar and 104 columns for SuperCalc. The CP/M utilities on the Extended Utility Diskette make the choice possible.

Selecting screen size is a two-step process. First, use SYSGEN to transfer CP/M from the Extended Utility Diskette to the particular applications diskette. Then, use SETUP to specify the screen size on the applications diskette.

1. SYSGEN

Place a copy of the Extended Utility Diskette in drive **A**, close the drive door, and press RETURN. You'll see this screen after the Osborne loads CP/M:

```

Loading CP/M

Extended Directory version 3.5

AUTOST .COM 2k
COPY .COM 6k
MOVCPM .COM 12k
SETUP .COM 6k
SYSGEN .COM 2k
XDIR .COM 4k

Disk A: 2K blocks
Size= 92K, 6 Files, Used= 34K, Space= 58K
A>_
```

Type SYSGEN after the A> on the above screen. Then press RETURN.
The system responds with the following screen:

```
Operating System Generation Program
OSBORNE COMPUTER SYSTEM ONE
Rev 2.1      (c) 1982 OCC

SOURCE drive (A or B) _
```

Since drive A contains the Extended Utility Diskette, press A to designate it as Source drive. Then press RETURN.

The Osborne reads the diskette and asks you to specify the Destination drive. The sequence on screen looks like this:

```
Operating System Generation Program
OSBORNE COMPUTER SYSTEM ONE
Rev 2.1      (c) 1982 OCC

SOURCE drive (A or B) A
Put SOURCE diskette in drive A, then press RETURN
System read successfully.

=====
DESTINATION (A,B or RETURN to exit) _
```

Press B to designate drive B as Destination.

Select the applications diskette (WordStar, SuperCalc, etc.) to which you're transferring CP/M. Place the diskette in drive B, close the door, and press RETURN.

When CP/M has been transferred, you'll see this screen:

```
Operating System Generation Program
OSBORNE COMPUTER SYSTEM ONE
Rev 2.1 (c) 1982 OCC
```

```
SOURCE drive (A or B) A
Put SOURCE diskette in drive A, then press RETURN
System read successfully.
```

```
-----
DESTINATION (A,B or RETURN to exit) B
Put DESTINATION diskette in B, then press RETURN
System copied successfully.
```

```
-----
DESTINATION (A,B or RETURN to exit) _
```

Press RETURN to exit from SYSGEN and display the CP/M prompt A>.

2. SETUP

After transferring CP/M to the applications diskette, the next step in implementing SCREEN-PAC is to specify screen size for that diskette. We'll use the SETUP program to do this. The Extended Utility Diskette should still be in drive A and your applications diskette in drive B.

With the A> prompt on screen, type SETUP. Then press RETURN. You'll see this message in response:

```
OSBORNE 1 Configuration Program Rev 2.6
```

```
Select source diskette for configuration (A or B)
or press "M" to get source from memory _
```

Since we're configuring the applications diskette in drive B, press B. The Osborne responds with this screen:

```
OSBORNE 1 Configuration Program    Rev 2.6  
Put SOURCE diskette in drive B  
then press RETURN_
```

The applications diskette is already in drive B. Press RETURN to display the configuration screen:

```
OSBORNE 1 Configuration Program    Rev 2.6  
  
A PRINTER MENU          B BAUD RATE  
STANDARD SERIAL        1200  
  
C SCREEN SIZE          D AUTO HORIZONTAL SCROLL  
128 LOGICAL            ON  
52 PHYSICAL  
E FUNCTION KEYS        F ARROW KEYS  
0: 0                   CP/M  
1: 1  
2: 2  
3: 3  
4: 4  
5: 5  
6: 6  
7: 7  
8: 8  
9: 9  
  
Press "A-F" to change values  
or RETURN to exit _
```

This screen is described in Chapter 2 of the Osborne User's Reference Guide. Its functions are retained with SCREEN-PAC. Item C, "Screen Size," now lets you specify 52, 80 or 104 column format.

Selecting Screen Size

Screen Size (Item C) on the configuration screen shows the system's current format. In the configuration screen above, the logical screen size is 128 characters. The physical screen size is 52 characters. What do these screen sizes mean?

Logical screen size refers to the number of characters you can enter on a line without automatically inserting a carriage return. Logical screen size can range from 1 up to a maximum of 128 characters.

Physical screen size refers to the number of columns actually displayed on your screen. With SCREEN-PAC, this will be 52, 80, or 104.

While the configuration screen is displayed, press C. You'll be given a list of screen options in response:

OSBORNE 1 Configuration Program Rev 2.6

CURRENT SCREEN SIZE
128 LOGICAL
52 PHYSICAL

LOGICAL	PHYSICAL
A 52	D 52
B 128	E 80
C ?	F 104

Press "A-F" to select screen size
or RETURN to return to main menu _

Logical screen sizes are listed in the left column. Physical screen sizes are listed on the right.

We strongly recommend you use 128 as logical screen size. To prevent scrambled screen displays, logical screen size should **NOT** be less than physical screen size.

For physical screen size, SCREEN-PAC gives you a choice of 52, 80, or 104 columns. The number of columns you choose to display can vary with the application. You might find 80 columns convenient for many uses, but 104 preferable for worksheets such as SuperCalc's.

To select screen size:

1. Press the letter corresponding to the number of columns you wish to use. Do this for both physical and logical screen size if necessary.
2. Press RETURN. The Osborne will display your choice on the configuration screen.

Configuration Notes:

If you're setting up SuperCalc, turn OFF the Auto Horizontal Scroll (Item D on the configuration screen).

If you're setting up WordStar, turn OFF the Auto Horizontal Scroll and set the Arrow keys to "WordStar" (Item F on the configuration screen).

The remaining settings on the configuration screen (printer, baud rate, function keys) generally needn't change from what you've used previously.

The screen size and configuration need to be recorded on your applications diskette. When you've completed your choices from the configuration screen, press RETURN. You'll see this message:

OSBORNE 1 Configuration Program Rev 2.6

Select destination diskette (A or B)
or press "M" to save in memory
or RETURN to exit _

Press B to designate the diskette in drive B as Destination. Then press RETURN.

The Osborne writes the new configuration onto the applications diskette. The CP/M prompt A> will appear when the process is complete.

You've now configured the applications diskette to display the number of columns specified.

Reformatting Files

You may wish to reformat your work files to conform to changes in screen size. You could, for example, expand 52 column WordStar text to 80 columns or 80 column SuperCalc sheets to 104.

Here are formatting techniques for WordStar and SuperCalc. The particular formatting routines for other applications programs remain applicable with SCREEN-PAC.

WordStar

WordStar uses ^O (control O) and ^B (control B) formatting commands. You can quickly reformat a file this way:

1. Use ^OR to specify the right margin of the display.
2. Set Hyphen Help OFF (^OH).
3. Position the cursor at the beginning of the text (^QR).
4. Type the command ^QQ^B.

Your file will be reformatted to display up to the right margin.

WordStar has a default value of 66 text columns, the standard width of a printed page. This means that files normally display in 66 columns after you've saved them on diskette. By using WordStar's INSTALL program, you can change the default value to automatically get a wider display.

The INSTALL utility is explained in Appendix 1, "Modifying WordStar," of the Osborne User's Reference Guide. To set a new default value for screen width go through the installation menus until you reach the message:

You may modify any location described in the listing
at the end of the User Manual or the Customization Notes.

The locations to change for screen width are **WID:** and **INITRM:**

The following table shows hex values to specify at these locations and the corresponding changes in WordStar:

		WordStar	
	Hex	Ruler Line	Flag Line
WID:	64		100
INITRM:	50	80	

SuperCalc

Reformat SuperCalc files by using the INSTALLS utility included on the SuperCalc diskette. To access this file, enter /Q at the SuperCalc command line, then press Y(es). This displays the CP/M prompt A>.

When the A> prompt appears, type INSTALLS and press RETURN. You'll see this screen in response:

```
A>installs

SuperCalc(tm) Install Program
Version 1.05

This program will let you modify
the SuperCalc(tm) file on your disk.
Do you wish to proceed (Y/N) ? _
```

Press Y to proceed with reformatting. SuperCalc asks the name of the file you're modifying. Type SC and press RETURN. Then follow the instructions on screen to specify the new screen width.

In SuperCalc Version 1.05, you can reformat and save 52-column worksheet files for a wider display. This requires you to load each file by specifying the range of cells to be displayed.

Enter the load command /L followed by the file name. Then press P(art). Specify the upper leftmost cell on your worksheet as the beginning of the range, the lower rightmost cell as the end, and again the upper leftmost for worksheet positioning on screen.

For example, to display the SuperCalc worksheet, "BALANCE.CAL," in expanded format, enter the instructions:

```
/L(oad), Balance, P(art), A1:025,A1
```

This will display the sample worksheet from column A through O and row 1 through 25. A block of cells up to 104 columns wide can be displayed this way.

ADDITIONAL SCREEN-PAC FEATURES

Besides expanding the Osborne's data display, SCREEN-PAC has preset video contrast in 80 and 104 column format. This means you don't need to use the contrast control on the front of the Osborne.

In these same formats, SCREEN-PAC provides horizontal scrolling by 32 column blocks. This allows quick cursor movement across the screen when necessary.

SCREEN-PAC also gives you capability to change screen size by using the RUN command in an MBASIC program. Switching the screen display involves two steps:

1. At BIOS location E1A5H, POKE or store

- 0 for 52 columns

- 1 for 104 columns

- 3 for 80 columns.

2. CALL BIOS location E5E4H.

This procedure uses the BIOS to write to location 2400H in Bank 2. This location is also flagged. With SCREEN-PAC installed, reading 2400H (Bank 2) returns data bit 2 LOW. Without SCREEN-PAC, this bit is read HIGH. This feature allows different screen responses and menus depending on whether the Osborne is fitted with SCREEN-PAC.



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